

# EVVOSEMI<sup>®</sup>

THINK CHANGE DO



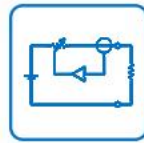
ESD



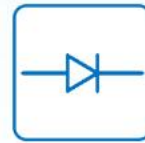
TVS



MOS



LDO



Diode



Sensor



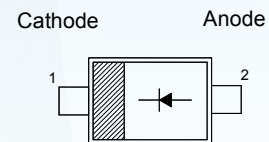
DC-DC

## Product Specification

▶ Domestic	Part Number	PMEG4005EJ
▶ Overseas	Part Number	PMEG4005EJ
▶ Equivalent	Part Number	PMEG4005EJ

EV is the abbreviation of name EVVO

Marking Code: LZ

**Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )**

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	40	V
Average Forward Rectified Current	$I_{F(AV)}$	1.0	A
Non-Repetitive Peak Forward Surge Current ( $t = 8.3\text{ ms}$ )	$I_{FSM}$	9	A
Power Dissipation	$P_{tot}$	450	mW
Operating Temperature Range	$T_j$	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 125	$^\circ\text{C}$

**Characteristics at  $T_a = 25\text{ }^\circ\text{C}$** 

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1\text{ mA}$	$V_{(BR)R}$	40	-	V
Forward Voltage at $I_F = 1\text{ A}$	$V_F$	-	0.6	V
at $I_F = 3\text{ A}$		-	0.9	
Reverse Voltage Leakage Current at $V_R = 40\text{ V}$	$I_R$	-	1	mA
Total Capacitance at $V_R = 4\text{ V}$ , $f = 1\text{ MHz}$	$C_{tot}$	-	120	pF

Fig. 1 - Forward Current Derating Curve

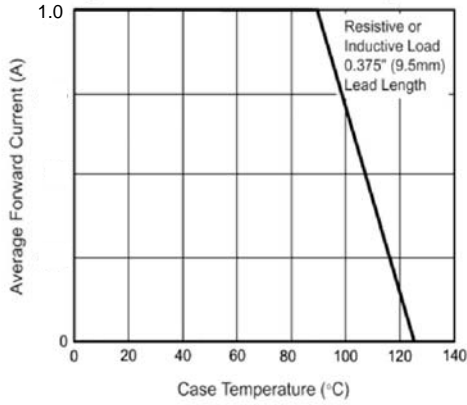


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

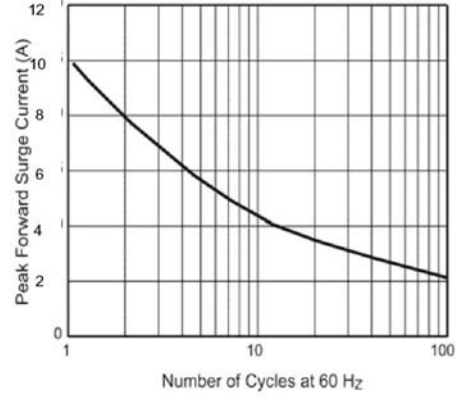


Fig. 3 - Typical Instantaneous Forward Characteristics

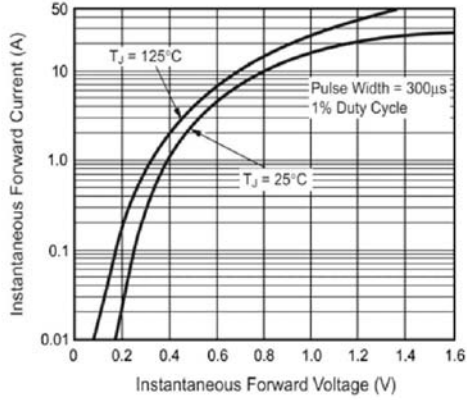


Fig. 4 - Typical Reverse Characteristics

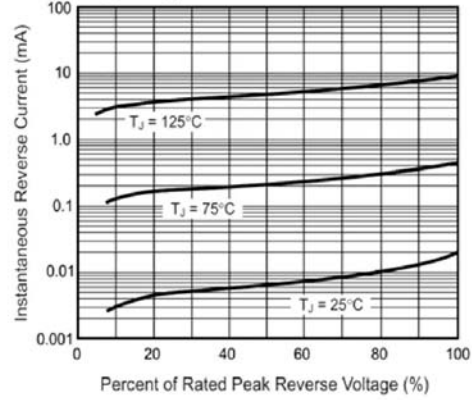


Fig. 5 - Typical Junction Capacitance

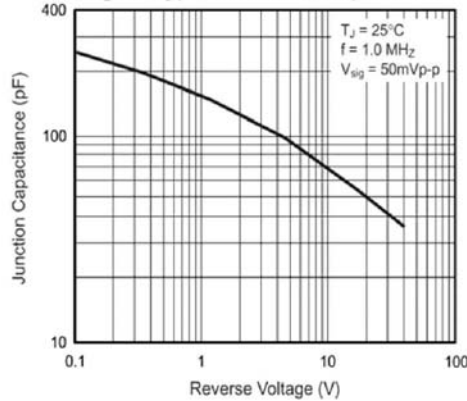
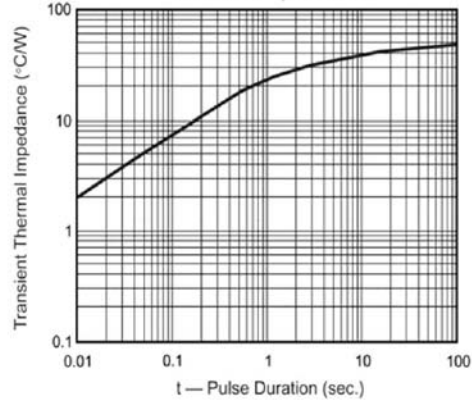


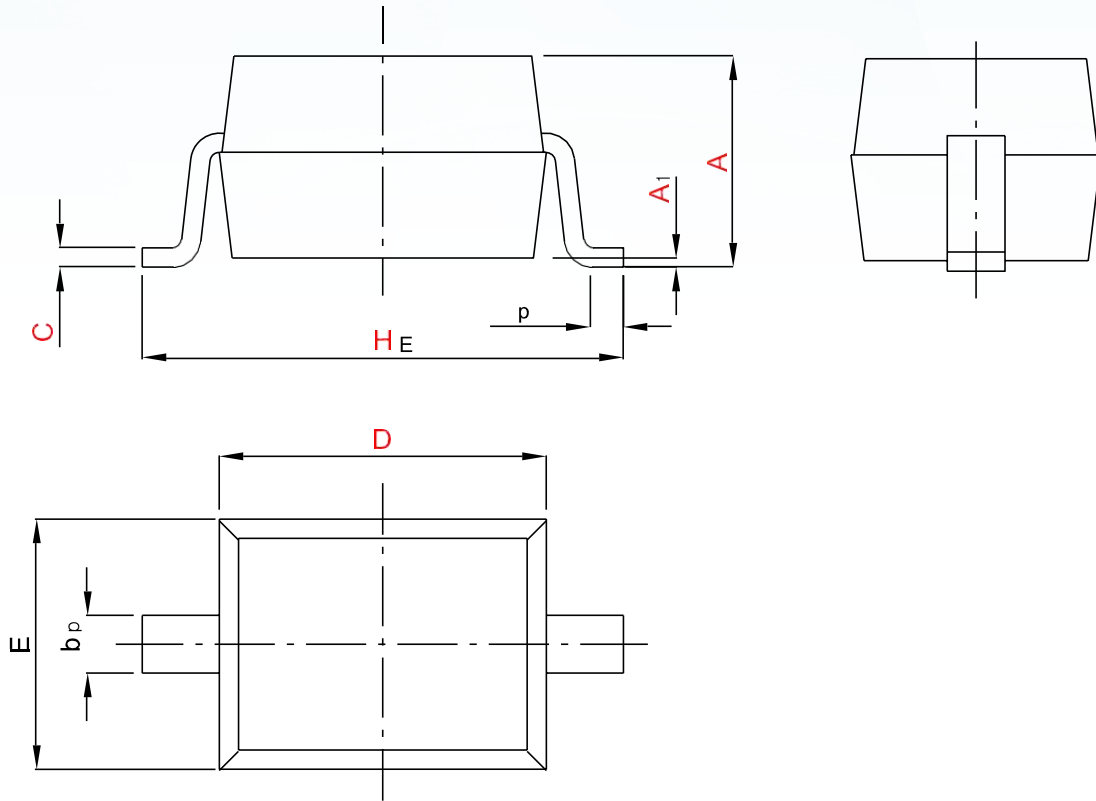
Fig. 6 - Typical Transient Thermal Impedance



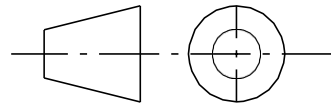
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

**SOD323**



UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50
	0.90	0.25	0.10	1.60	1.15	2.30	0.01	0.20



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